



Call for Papers

IEEE International Workshop on Antenna Technology: Small Antennas and Novel Metamaterials

March 6-8, 2006, White Plains, New York
<http://research.ihost.com/iwat2006/>



The International Workshop on Antenna Technology is intended to provide an international forum for the exchange of information on the progress of research and development in innovative antenna technology, particularly, for the miniaturization of antennas and the broad/multiple-band antennas. The workshop will focus on advanced technology such as applications of advanced materials and artificial materials to antenna design, and promote the new technology in antenna academic and industrial communities. The antenna design related to emerging wireless communication and radar systems will also be highlighted.

The topics of interest include but are not limited to the following:

Small Antennas

- Adaptive (smart) arrays for mobile terminals
- Antennas on/in IC packages
- Co-design of antennas with RF front-end
- Miniaturization of antennas
- Embedded antennas
- Conformal antennas and arrays
- Compact arrays
- Broadband antennas and arrays
- Multiband antennas and arrays
- Diversity for antennas and arrays
- Measurement for antennas with small system ground planes
- Measurement for ultra-wideband (UWB) antennas
- Measurement for SAR of handheld devices
- Fast time-domain computation for UWB antenna systems
- Reconfigurable antennas
- Printed antennas
- MEMS/Nano technology for antennas

Innovative Periodic Structures and Materials

- Electromagnetic bandgap (EBG)
- Photonic bandgap (PBG)
- Left-handed materials (LHS)

- Electromagnetic anisotropy
- Frequency selective surfaces (FSS)
- Artificial magnetic conductors (AMC)
- Fractal structures
- Bi-anisotropic materials
- Novel features of EM materials
- Smart materials
- Analysis and design of EM materials

Applications

- UWB communications
- UWB radar systems
- MIMO transmission systems
- 3G and beyond mobile wireless systems
- Wireless communication systems (handheld devices, base stations)
- Bluetooth/W-LAN (PDAs, laptops)
- RFID/Sensors
- Radar systems/automotives
- GPS systems
- Medical applications
- Millimeter systems
- Any other topics related to the theme

Exhibitions

Exhibitions of products related to technical topics are solicited concurrently. Interested parties should contact the **Exhibition Chair Kurt Vetter** at kurt.vetter@baesystems.com.

Important Dates

Deadline of submission of paper: September 30, 2005
Notification of Acceptance: October 31, 2005

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